

Title (en)
METHOD FOR PREPARING HYDROPHOBIC SILICA AEROGEL AND HYDROPHOBIC SILICA AEROGEL PREPARED THEREFROM

Title (de)
VERFAHREN ZUR HERSTELLUNG EINES HYDROPHOBEN SILICIUMDIOXIDAEROGELS UND DADURCH HERGESTELLTES HYDROPHOBES SILICIUMDIOXIDAEROGEL

Title (fr)
PROCÉDÉ DE PRÉPARATION D'UN AÉROGEL DE SILICE HYDROPHOBE ET AÉROGEL DE SILICE HYDROPHOBE PRÉPARÉ À PARTIR DE CELUI-CI

Publication
EP 3214041 A4 20171129 (EN)

Application
EP 16867379 A 20161104

Priority

- KR 20150167860 A 20151127
- KR 2016012670 W 20161104

Abstract (en)
[origin: EP3214041A1] The present invention relates to a method of preparing a high hydrophobic silica aerogel having a high specific surface area and a low tap density, and a hydrophobic silica aerogel prepared thereby. The method of preparing a hydrophobic silica aerogel according to the present invention may have good productivity and economic efficiency, because preparation time is reduced by simultaneously performing surface modification, gelation, and solvent substitution in a single step, and may control a degree of hydrophobicity of the prepared silica aerogel by controlling a surface modification reaction by including a step of adding ammonium hydroxide. Thus, the preparation method according to the present invention and the hydrophobic silica aerogel are suitable for industries that need the method and the hydrophobic silica aerogel, particularly, industries that need a silica aerogel having high hydrophobicity or industries that need a silica aerogel having various degrees of hydrophobicity.

IPC 8 full level
C01B 33/154 (2006.01); **C01B 33/158** (2006.01)

CPC (source: EP US)
C01B 33/154 (2013.01 - EP US); **C01B 33/158** (2013.01 - EP US); **C08K 3/36** (2013.01 - US)

Citation (search report)

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- See references of WO 2017090911A1

Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)
BA ME

DOCDB simple family (publication)
EP 3214041 A1 20170906; EP 3214041 A4 20171129; EP 3214041 B1 20220223; CN 107108237 A 20170829; CN 107108237 B 20191126; KR 101800938 B1 20171123; KR 20170062260 A 20170607; US 10336621 B2 20190702; US 2018002181 A1 20180104; WO 2017090911 A1 20170601

DOCDB simple family (application)
EP 16867379 A 20161104; CN 201680004464 A 20161104; KR 20150167860 A 20151127; KR 2016012670 W 20161104; US 201615537205 A 20161104